

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/008624

A. CLASSIFICATION OF SUBJECT MATTER

Int.C1⁷ C30B11/00, C30B29/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.C1⁷ C30B11/00, C30B29/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, Elsevier

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2000-272990 A (Ibiden Co., Ltd.), 03 October, 2000 (03.10.00), Claims; page 2, Par. No. [0005] to page 4, Par. No. [0011] (Family: none)	1-3
Y	JP 3-290390 A (Shin-Etsu Chemical Co., Ltd.), 20 December, 1991 (20.12.91), Claims; page 2, upper left column, line 19 to upper right column, line 16; Fig. 1 (Family: none)	4,5,7-19
Y	JP 2002-29882 A (Shikoku Instrumentation Co., Ltd.), 29 January, 2002 (29.01.02), Claims; page 4, Par. No. [0021]; Fig. 7 & WO 2002/006569 A1	4,5,9-19
X	JP 2002-29882 A (Shikoku Instrumentation Co., Ltd.), 29 January, 2002 (29.01.02), Claims; page 4, Par. No. [0021]; Fig. 7 & WO 2002/006569 A1	6
Y		7,8,11,12

Further documents are listed in the continuation of Box C.

See patent family annex.

<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>
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Date of the actual completion of the international search
30 August, 2004 (30.08.04)

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14 September, 2004 (14.09.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Faxsimile No.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/008624

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 10-265296 A (Nikon Corp.), 06 October, 1998 (06.10.98), Claims; page 4, Par. No. [0032] to page 5, Par. No. [0045] (Family: none)	11, 12, 17-19
Y	JP 2000-272991 A (Canon Inc.), 03 October, 2000 (03.10.00), Claims (Family: none)	13-19
A	JP 2002-308697 A (Nippon Steel Corp.), 23 October, 2002 (23.10.02), Claims; page 3, Par. No. [0010] to page 5, Par. No. [0023] (Family: none)	1-19
A	JP 57-71900 A (Sumitomo Electric Industries, Ltd.), 04 May, 1982 (04.05.82), Claims; page 3, right column, line 6 to page 2, upper right column, line 20 (Family: none)	1-19
A	JP 1999-199362 A (Kobe Steel, Ltd.), 27 July, 1999 (27.07.99), Claims; page 4, Par. No. [0023] to page 7, Par. No. [0052] (Family: none)	1-19